

#13
10/1/93RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:47:03

INPUT SET: S521.raw

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Harley, John

(ii) TITLE OF INVENTION: METHODS AND REAGENTS FOR DIAGNOSIS OF AUTOANTIBODIES

(iii) NUMBER OF SEQUENCES: 118

(iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Kilpatrick & Cody
- (B) STREET: 1100 Peachtree Street
- (C) CITY: Atlanta
- (D) STATE: GA
- (E) COUNTRY: USA
- (F) ZIP: 30309-4530

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: US 07/867,819
- (B) FILING DATE: 13-APR-1992
- (C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: US 07/648,205
- (B) FILING DATE: 31-JAN-1991

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: US 07/472,947
- (B) FILING DATE: 31-JAN-1990

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Pabst, Patrea L.
- (B) REGISTRATION NUMBER: 31,284
- (C) REFERENCE/DOCKET NUMBER: OMR F114CIP(2)

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (404)-815-6508
- (B) TELEFAX: (404)-815-6555

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8 amino acids
- (B) TYPE: amino acid

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52 (C) STRANDEDNESS: single
53 (D) TOPOLOGY: linear
54
55 (ii) MOLECULE TYPE: peptide
56
57 (iii) HYPOTHETICAL: NO
58
59 (iv) ANTI-SENSE: NO
60
61 (v) FRAGMENT TYPE: N-terminal
62
63 (vi) ORIGINAL SOURCE:
64 (A) ORGANISM: Homo sapiens
65
66 (ix) FEATURE:
67 (A) NAME/KEY: Binding-site
68 (B) LOCATION: 1..8
69
70 (x) PUBLICATION INFORMATION:
71 (A) AUTHORS: Harley, John B.
72
73
74
75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
76
77 Gly Thr Phe Lys Ala Phe Asp Lys
78 1 5
79
80 (2) INFORMATION FOR SEQ ID NO:2:
81
82 (i) SEQUENCE CHARACTERISTICS:
83 (A) LENGTH: 15 amino acids
84 (B) TYPE: amino acid
85 (C) STRANDEDNESS: single
86 (D) TOPOLOGY: linear
87
88 (ii) MOLECULE TYPE: peptide
89
90
91 (ix) FEATURE:
92 (A) NAME/KEY: Binding-site
93 (B) LOCATION: 1..8
94
95
96 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
97
98 Cys Asp Glu Phe Arg Lys Ile Lys Pro Lys Asn Ala Lys Gln Pro
99 1 5 10 15
100
101 (2) INFORMATION FOR SEQ ID NO:3:
102

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103 (i) SEQUENCE CHARACTERISTICS:
104 (A) LENGTH: 8 amino acids
105 (B) TYPE: amino acid
106 (C) STRANDEDNESS: single
107 (D) TOPOLOGY: linear
108
109 (ii) MOLECULE TYPE: peptide
110
111
112 (ix) FEATURE:
113 (A) NAME/KEY: Binding-site
114 (B) LOCATION: 1..8
115
116 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
117
118 Arg Val Pro Leu Ala Gly Ala Ala
119 1 5
120
121 (2) INFORMATION FOR SEQ ID NO:4:
122
123 (i) SEQUENCE CHARACTERISTICS:
124 (A) LENGTH: 17 amino acids
125 (B) TYPE: amino acid
126 (C) STRANDEDNESS: single
127 (D) TOPOLOGY: linear
128
129 (ii) MOLECULE TYPE: peptide
130
131 (ix) FEATURE:
132 (A) NAME/KEY: Binding-site
133 (B) LOCATION: 4..11
134
135 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
136
137 Ala Gly Gly Pro Gly Val Gly Arg Ala Ala Gly Arg Gly Val Pro
138 1 5 10 15
139 Ala Gly
140
141 (2) INFORMATION FOR SEQ ID NO:5:
142
143 (i) SEQUENCE CHARACTERISTICS:
144 (A) LENGTH: 15 amino acids
145 (B) TYPE: amino acid
146 (C) STRANDEDNESS: single
147 (D) TOPOLOGY: linear
148
149 (ii) MOLECULE TYPE: peptide
150
151
152 (ix) FEATURE:
153 (A) NAME/KEY: Binding-site

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154 (B) LOCATION: 7..14
155
156
157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
158
159 Ala Gly Leu Ala Gly Pro Val Arg Gly Val Gly Gly Pro Ser Gln
160 1 5 10 15
161
162 (2) INFORMATION FOR SEQ ID NO:6:
163
164 (i) SEQUENCE CHARACTERISTICS:
165 (A) LENGTH: 12 amino acids
166 (B) TYPE: amino acid
167 (C) STRANDEDNESS: single
168 (D) TOPOLOGY: linear
169
170 (ii) MOLECULE TYPE: peptide
171
172
173 (ix) FEATURE:
174 (A) NAME/KEY: Binding-site
175 (B) LOCATION: 3..10
176
177
178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
179
180 Gln Val Met Thr Pro Gln Gly Arg Gly Thr Val Ala
181 1 5 10
182
183
184
185
186 (2) INFORMATION FOR SEQ ID NO:7:
187
188 (i) SEQUENCE CHARACTERISTICS:
189 (A) LENGTH: 15 amino acids
190 (B) TYPE: amino acid
191 (C) STRANDEDNESS: single
192 (D) TOPOLOGY: linear
193
194 (ii) MOLECULE TYPE: peptide
195
196 (ix) FEATURE:
197 (A) NAME/KEY: Binding-site
198 (B) LOCATION: 8..15
199
200 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
201
202 Pro Thr Gln Tyr Pro Pro Gly Arg Gly Thr Pro Pro Pro Pro Val
203 1 5 10 15
204

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205 (2) INFORMATION FOR SEQ ID NO:8:
206
207 (i) SEQUENCE CHARACTERISTICS:
208 (A) LENGTH: 15 amino acids
209 (B) TYPE: amino acid
210 (C) STRANDEDNESS: single
211 (D) TOPOLOGY: linear
212
213 (ii) MOLECULE TYPE: peptide
214
215 (ix) FEATURE:
216 (A) NAME/KEY: Binding-site
217 (B) LOCATION: 2..9
218
219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
220
221 Thr Pro Pro Pro Pro Val Gly Arg Ala Thr Pro Pro Pro Gly Ile
222 1 5 10 15
223

224 (2) INFORMATION FOR SEQ ID NO:9:
225
226 (i) SEQUENCE CHARACTERISTICS:
227 (A) LENGTH: 8 amino acids
228 (B) TYPE: amino acid
229 (C) STRANDEDNESS: single
230 (D) TOPOLOGY: linear
231
232 (ii) MOLECULE TYPE: peptide
233
234
235 (ix) FEATURE:
236 (A) NAME/KEY: Binding-site
237 (B) LOCATION: 1..8
238
239
240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
241
242 Pro Pro Pro Gly Ile Met Ala Pro
243 1 5
244

245 (2) INFORMATION FOR SEQ ID NO:10:
246
247 (i) SEQUENCE CHARACTERISTICS:
248 (A) LENGTH: 11 amino acids
249 (B) TYPE: amino acid
250 (C) STRANDEDNESS: single
251 (D) TOPOLOGY: linear
252
253 (ii) MOLECULE TYPE: peptide
254
255

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256 (ix) FEATURE:
257 (A) NAME/KEY: Binding-site
258 (B) LOCATION: 3..10
259
260
261 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
262
263 Met Ala Pro Pro Pro Gly Met Arg Pro Pro Met
264 1 5 10
265
266 (2) INFORMATION FOR SEQ ID NO:11:
267
268 (i) SEQUENCE CHARACTERISTICS:
269 (A) LENGTH: 16 amino acids
270 (B) TYPE: amino acid
271 (C) STRANDEDNESS: single
272 (D) TOPOLOGY: linear
273
274 (ii) MOLECULE TYPE: peptide
275
276
277 (ix) FEATURE:
278 (A) NAME/KEY: Binding-site
279 (B) LOCATION: 5..12
280
281
282 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
283
284 Pro Ile Gly Leu Pro Pro Ala Arg Gly Thr Pro Ile Gly Met Pro
285 1 5 10 15
286 Pro
287
288 (2) INFORMATION FOR SEQ ID NO:12:
289
290 (i) SEQUENCE CHARACTERISTICS:
291 (A) LENGTH: 8 amino acids
292 (B) TYPE: amino acid
293 (C) STRANDEDNESS: single
294 (D) TOPOLOGY: linear
295
296 (ii) MOLECULE TYPE: peptide
297
298
299 (ix) FEATURE:
300 (A) NAME/KEY: Binding-site
301 (B) LOCATION: 1..8
302
303
304 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
305
306 Pro Ile Gly Met Pro Pro Pro Gly

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307 1 5
308
309 (2) INFORMATION FOR SEQ ID NO:13:
310
311 (i) SEQUENCE CHARACTERISTICS:
312 (A) LENGTH: 11 amino acids
313 (B) TYPE: amino acid
314 (C) STRANDEDNESS: single
315 (D) TOPOLOGY: linear
316
317 (ii) MOLECULE TYPE: peptide
318
319
320 (ix) FEATURE:
321 (A) NAME/KEY: Binding-site
322 (B) LOCATION: 1..8
323
324 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
325
326 Arg Pro Pro Pro Pro Gly Ile Arg Gly Pro Pro
327 1 5 10
328
329 (2) INFORMATION FOR SEQ ID NO:14:
330
331 (i) SEQUENCE CHARACTERISTICS:
332 (A) LENGTH: 12 amino acids
333 (B) TYPE: amino acid
334 (C) STRANDEDNESS: single
335 (D) TOPOLOGY: linear
336
337 (ii) MOLECULE TYPE: peptide
338
339 (ix) FEATURE:
340 (A) NAME/KEY: Binding-site
341 (B) LOCATION: 3..10
342
343 (ix) FEATURE:
344 (A) NAME/KEY: Modified-site
345 (B) LOCATION: 6
346 (D) OTHER INFORMATION: /note= "The arginine at position 8 can be substitu
347
348
349 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
350
351 Arg Gly Pro Pro Pro Pro Gly Met Arg Pro Pro Arg
352 1 5 10
353
354 (2) INFORMATION FOR SEQ ID NO:15:
355
356 (i) SEQUENCE CHARACTERISTICS:
357 (A) LENGTH: 9 amino acids

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358 (B) TYPE: amino acid
359 (C) STRANDEDNESS: single
360 (D) TOPOLOGY: linear
361
362 (ii) MOLECULE TYPE: peptide
363
364
365 (ix) FEATURE:
366 (A) NAME/KEY: Binding-site
367 (B) LOCATION: 1..8
368
369 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
370
371 Thr Phe Lys Ala Phe Asp Lys His Met
372 1 5
373
374 (2) INFORMATION FOR SEQ ID NO:16:
375
376 (i) SEQUENCE CHARACTERISTICS:
377 (A) LENGTH: 8 amino acids
378 (B) TYPE: amino acid
379 (C) STRANDEDNESS: single
380 (D) TOPOLOGY: linear
381
382 (ii) MOLECULE TYPE: peptide
383
384
385 (ix) FEATURE:
386 (A) NAME/KEY: Binding-site
387 (B) LOCATION: 1..8
388
389
390 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
391
392 Glu Gly Pro Pro Pro Lys Asp Thr
393 1 5
394
395
396 (2) INFORMATION FOR SEQ ID NO:17:
397
398 (i) SEQUENCE CHARACTERISTICS:
399 (A) LENGTH: 8 amino acids
400 (B) TYPE: amino acid
401 (C) STRANDEDNESS: single
402 (D) TOPOLOGY: linear
403
404 (ii) MOLECULE TYPE: peptide
405
406
407 (ix) FEATURE:
408 (A) NAME/KEY: Binding-site

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409 (B) LOCATION: 1..8
410
411 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
412
413 Lys Asp Thr Gly Ile Ala Arg Val
414 1 5
415
416 (2) INFORMATION FOR SEQ ID NO:18:
417
418 (i) SEQUENCE CHARACTERISTICS:
419 (A) LENGTH: 10 amino acids
420 (B) TYPE: amino acid
421 (C) STRANDEDNESS: single
422 (D) TOPOLOGY: linear
423
424 (ii) MOLECULE TYPE: peptide
425
426
427 (ix) FEATURE:
428 (A) NAME/KEY: Binding-site
429 (B) LOCATION: 3..10
430
431
432 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
433
434 Ile Pro Gln Ala Pro Ala Gly Leu Ala Gly
435 1 5 10
436
437
438 (2) INFORMATION FOR SEQ ID NO:19:
439
440 (i) SEQUENCE CHARACTERISTICS:
441 (A) LENGTH: 18 amino acids
442 (B) TYPE: amino acid
443 (C) STRANDEDNESS: single
444 (D) TOPOLOGY: linear
445
446 (ii) MOLECULE TYPE: peptide
447
448
449 (ix) FEATURE:
450 (A) NAME/KEY: Binding-site
451 (B) LOCATION: 4..16
452
453
454 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
455
456 Gln Val Leu Asn Ile Gln Met Arg Arg Thr Leu His Lys Ala Phe
457 1 5 10 15
458
459 Lys Gly Ser

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460
461
462 (2) INFORMATION FOR SEQ ID NO:20:
463
464 (i) SEQUENCE CHARACTERISTICS:
465 (A) LENGTH: 21 amino acids
466 (B) TYPE: amino acid
467 (C) STRANDEDNESS: single
468 (D) TOPOLOGY: linear
469
470 (ii) MOLECULE TYPE: peptide
471
472
473 (ix) FEATURE:
474 (A) NAME/KEY: Binding-site
475 (B) LOCATION: 8..15
476
477
478 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:
479
480 Ile Cys His Gln Ile Glu Tyr Tyr Phe Gly Asp Phe Asn Leu Pro
481 1 5 10 15
482 Arg Asp Lys Phe Leu Lys
483 20
484
485
486
487 (2) INFORMATION FOR SEQ ID NO:21:
488
489 (i) SEQUENCE CHARACTERISTICS:
490 (A) LENGTH: 12 amino acids
491 (B) TYPE: amino acid
492 (C) STRANDEDNESS: single
493 (D) TOPOLOGY: linear
494
495 (ii) MOLECULE TYPE: peptide
496
497
498 (ix) FEATURE:
499 (A) NAME/KEY: Binding-site
500 (B) LOCATION: 2..9
501
502 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:
503
504 Trp Val Pro Leu Glu Ile Met Ile Lys Phe Asn Arg
505 1 5 10
506
507 (2) INFORMATION FOR SEQ ID NO:22:
508
509 (i) SEQUENCE CHARACTERISTICS:
510 (A) LENGTH: 12 amino acids

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511 (B) TYPE: amino acid
512 (C) STRANDEDNESS: single
513 (D) TOPOLOGY: linear
514
515 (ii) MOLECULE TYPE: peptide
516
517
518 (ix) FEATURE:
519 (A) NAME/KEY: Binding-site
520 (B) LOCATION: 3..10
521
522
523
524 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:
525
526 Lys Thr Lys Ile Arg Arg Ser Pro Ser Lys Pro Leu
527 1 5 10
528
529 (2) INFORMATION FOR SEQ ID NO:23:
530
531 (i) SEQUENCE CHARACTERISTICS:
532 (A) LENGTH: 15 amino acids
533 (B) TYPE: amino acid
534 (C) STRANDEDNESS: single
535 (D) TOPOLOGY: linear
536
537 (ii) MOLECULE TYPE: peptide
538
539
540 (ix) FEATURE:
541 (A) NAME/KEY: Binding-site
542 (B) LOCATION: 1..8
543
544
545 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:
546
547 Asn Arg Leu Asn Arg Leu Thr Thr Asp Phe Asn Val Ile Val Glu
548 1 5 10 15
549
550
551 (2) INFORMATION FOR SEQ ID NO:24:
552
553 (i) SEQUENCE CHARACTERISTICS:
554 (A) LENGTH: 13 amino acids
555 (B) TYPE: amino acid
556 (C) STRANDEDNESS: single
557 (D) TOPOLOGY: linear
558
559 (ii) MOLECULE TYPE: peptide
560
561

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562 (ix) FEATURE:
563 (A) NAME/KEY: Binding-site
564 (B) LOCATION: 4..13
565
566 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:
567
568 Gly Glu Ile Lys Trp Ile Asp Phe Val Arg Gly Ala Lys
569 1 5 10
570
571 (2) INFORMATION FOR SEQ ID NO:25:
572
573 (i) SEQUENCE CHARACTERISTICS:
574 (A) LENGTH: 20 amino acids
575 (B) TYPE: amino acid
576 (C) STRANDEDNESS: single
577 (D) TOPOLOGY: linear
578
579 (ii) MOLECULE TYPE: peptide
580
581
582 (ix) FEATURE:
583 (A) NAME/KEY: Binding-site
584 (B) LOCATION: 6..13
585
586 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:
587
588 Ser Leu Asn Lys Trp Lys Ser Lys Gly Arg Arg Phe Lys Gly Lys
589 1 5 10 15
590
591 Gly Lys Gly Asn Lys
592 20
593
594
595
596
597
598
599 (2) INFORMATION FOR SEQ ID NO:26:
600
601 (i) SEQUENCE CHARACTERISTICS:
602 (A) LENGTH: 12 amino acids
603 (B) TYPE: amino acid
604 (C) STRANDEDNESS: single
605 (D) TOPOLOGY: linear
606
607 (ii) MOLECULE TYPE: peptide
608
609
610 (ix) FEATURE:
611 (A) NAME/KEY: Binding-site
612 (B) LOCATION: 5..12

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613
614
615 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:
616
617 Gly Asn Leu Gln Leu Arg Asn Lys Glu Val Thr Trp
618 1 5 10
619
620 (2) INFORMATION FOR SEQ ID NO:27:
621
622 (i) SEQUENCE CHARACTERISTICS:
623 (A) LENGTH: 9 amino acids
624 (B) TYPE: amino acid
625 (C) STRANDEDNESS: single
626 (D) TOPOLOGY: linear
627
628 (ii) MOLECULE TYPE: peptide
629
630
631 (ix) FEATURE:
632 (A) NAME/KEY: Binding-site
633 (B) LOCATION: 2..9
634
635
636 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:
637
638 Ile Phe Val Val Phe Asp Ser Ile Glu
639 1 5
640
641
642 (2) INFORMATION FOR SEQ ID NO:28:
643
644 (i) SEQUENCE CHARACTERISTICS:
645 (A) LENGTH: 15 amino acids
646 (B) TYPE: amino acid
647 (C) STRANDEDNESS: single
648 (D) TOPOLOGY: linear
649
650 (ii) MOLECULE TYPE: peptide
651
652
653 (ix) FEATURE:
654 (A) NAME/KEY: Binding-site
655 (B) LOCATION: 7..14
656
657 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:
658
659 Lys Glu Thr Asp Leu Leu Ile Leu Phe Lys Asp Asp Tyr Phe Ala
660 1 5 10 15
661
662
663 (2) INFORMATION FOR SEQ ID NO:29:

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664
665 (i) SEQUENCE CHARACTERISTICS:
666 (A) LENGTH: 17 amino acids
667 (B) TYPE: amino acid
668 (C) STRANDEDNESS: single
669 (D) TOPOLOGY: linear
670
671 (ii) MOLECULE TYPE: peptide
672
673
674 (ix) FEATURE:
675 (A) NAME/KEY: Binding-site
676 (B) LOCATION: 9..16
677
678
679 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:
680
681 Tyr Lys Asn Asp Val Lys Asn Arg Ser Val Tyr Ile Lys Gly Phe
682 1 5 10 15
683 Pro Thr
684
685
686 (2) INFORMATION FOR SEQ ID NO:30:
687
688 (i) SEQUENCE CHARACTERISTICS:
689 (A) LENGTH: 9 amino acids
690 (B) TYPE: amino acid
691 (C) STRANDEDNESS: single
692 (D) TOPOLOGY: linear
693
694 (ii) MOLECULE TYPE: peptide
695
696
697 (ix) FEATURE:
698 (A) NAME/KEY: Binding-site
699 (B) LOCATION: 1..8
700
701
702 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:
703
704 Thr Asp Phe Asn Val Ile Val Glu Ala
705 1 5
706
707
708
709
710
711 (2) INFORMATION FOR SEQ ID NO:31:
712
713 (i) SEQUENCE CHARACTERISTICS:
714 (A) LENGTH: 11 amino acids

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715 (B) TYPE: amino acid
716 (C) STRANDEDNESS: single
717 (D) TOPOLOGY: linear
718
719 (ii) MOLECULE TYPE: peptide
720
721
722 (ix) FEATURE:
723 (A) NAME/KEY: Binding-site
724 (B) LOCATION: 1..8
725
726
727 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:
728
729 Glu Gly Ile Ile Leu Phe Lys Glu Lys Ala Lys
730 1 5 10
731
732 (2) INFORMATION FOR SEQ ID NO:32:
733
734 (i) SEQUENCE CHARACTERISTICS:
735 (A) LENGTH: 14 amino acids
736 (B) TYPE: amino acid
737 (C) STRANDEDNESS: single
738 (D) TOPOLOGY: linear
739
740 (ii) MOLECULE TYPE: peptide
741
742
743 (ix) FEATURE:
744 (A) NAME/KEY: Binding-site
745 (B) LOCATION: 7..14
746
747
748
749 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:
750
751 Lys Val Gln Phe Gln Gly Lys Lys Thr Lys Phe Ala Ser Asp
752 1 5 10
753
754 (2) INFORMATION FOR SEQ ID NO:33:
755
756 (i) SEQUENCE CHARACTERISTICS:
757 (A) LENGTH: 8 amino acids
758 (B) TYPE: amino acid
759 (C) STRANDEDNESS: single
760 (D) TOPOLOGY: linear
761
762 (ii) MOLECULE TYPE: peptide
763
764
765 (ix) FEATURE:

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766 (A) NAME/KEY: Binding-site
767 (B) LOCATION: 1..8
768
769
770 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

771
772 Arg Glu Asp Leu His Ile Leu Phe
773 1 5
774

775 (2) INFORMATION FOR SEQ ID NO:34:

776
777 (i) SEQUENCE CHARACTERISTICS:
778 (A) LENGTH: 8 amino acids
779 (B) TYPE: amino acid
780 (C) STRANDEDNESS: single
781 (D) TOPOLOGY: linear
782

783 (ii) MOLECULE TYPE: peptide
784

785
786 (ix) FEATURE:
787 (A) NAME/KEY: Binding-site
788 (B) LOCATION: 1..8
789

790
791 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

792
793 Cys Leu Leu Lys Phe Ser Gly Asp
794 1 5
795

796 (2) INFORMATION FOR SEQ ID NO:35:

797
798 (i) SEQUENCE CHARACTERISTICS:
799 (A) LENGTH: 8 amino acids
800 (B) TYPE: amino acid
801 (C) STRANDEDNESS: single
802 (D) TOPOLOGY: linear
803

804 (ii) MOLECULE TYPE: peptide
805

806
807 (ix) FEATURE:
808 (A) NAME/KEY: Binding-site
809 (B) LOCATION: 1..8
810

811 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

812
813 Thr Gly Pro Val Lys Arg Ala Arg
814 1 5
815

816 (2) INFORMATION FOR SEQ ID NO:36:

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:48:31

INPUT SET: S521.raw

817
818 (i) SEQUENCE CHARACTERISTICS:
819 (A) LENGTH: 10 amino acids
820 (B) TYPE: amino acid
821 (C) STRANDEDNESS: single
822 (D) TOPOLOGY: linear
823
824 (ii) MOLECULE TYPE: peptide
825
826
827 (ix) FEATURE:
828 (A) NAME/KEY: Binding-site
829 (B) LOCATION: 3..10
830
831
832 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:
833
834 Lys Val Glu Ala Lys Leu Arg Ala Lys Gln
835 1 5 10
836
837 (2) INFORMATION FOR SEQ ID NO:37:
838
839 (i) SEQUENCE CHARACTERISTICS:
840 (A) LENGTH: 8 amino acids
841 (B) TYPE: amino acid
842 (C) STRANDEDNESS: single
843 (D) TOPOLOGY: linear
844
845 (ii) MOLECULE TYPE: peptide
846
847
848 (ix) FEATURE:
849 (A) NAME/KEY: Binding-site
850 (B) LOCATION: 1..8
851
852
853 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:
854
855 Met Asn Arg Leu His Arg Phe Leu
856 1 5
857
858
859
860
861 (2) INFORMATION FOR SEQ ID NO:38:
862
863 (i) SEQUENCE CHARACTERISTICS:
864 (A) LENGTH: 9 amino acids
865 (B) TYPE: amino acid
866 (C) STRANDEDNESS: single
867 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING
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TIME: 12:48:38

INPUT SET: S521.raw

868
869 (ii) MOLECULE TYPE: peptide
870
871 (ix) FEATURE:
872 (A) NAME/KEY: Binding-site
873 (B) LOCATION: 2..9
874
875 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:
876
877 Leu Cys Phe Gly Ser Glu Gly Gly Thr
878 1 5
879
880 (2) INFORMATION FOR SEQ ID NO:39:
881
882 (i) SEQUENCE CHARACTERISTICS:
883 (A) LENGTH: 11 amino acids
884 (B) TYPE: amino acid
885 (C) STRANDEDNESS: single
886 (D) TOPOLOGY: linear
887
888 (ii) MOLECULE TYPE: peptide
889
890 (ix) FEATURE:
891 (A) NAME/KEY: Binding-site
892 (B) LOCATION: 1..8
893
894 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:
895
896 Ser Glu Gly Gly Thr Tyr Tyr Ile Lys Glu Gln
897 1 5 10
898
899 (2) INFORMATION FOR SEQ ID NO:40:
900
901 (i) SEQUENCE CHARACTERISTICS:
902 (A) LENGTH: 11 amino acids
903 (B) TYPE: amino acid
904 (C) STRANDEDNESS: single
905 (D) TOPOLOGY: linear
906
907 (ii) MOLECULE TYPE: peptide
908
909
910 (ix) FEATURE:
911 (A) NAME/KEY: Binding-site
912 (B) LOCATION: 3..10
913
914
915 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:
916
917 Glu Ile Lys Ser Phe Ser Gln Glu Gly Arg Thr
918 1 5 10

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:48:44

INPUT SET: S521.raw

919
920 (2) INFORMATION FOR SEQ ID NO:41:
921
922 (i) SEQUENCE CHARACTERISTICS:
923 (A) LENGTH: 9 amino acids
924 (B) TYPE: amino acid
925 (C) STRANDEDNESS: single
926 (D) TOPOLOGY: linear
927
928 (ii) MOLECULE TYPE: peptide
929
930
931 (ix) FEATURE:
932 (A) NAME/KEY: Binding-site
933 (B) LOCATION: 2..9
934
935
936 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:
937
938 Ser Gln Glu Gly Arg Thr Thr Lys Gln
939 1 5
940

941 (2) INFORMATION FOR SEQ ID NO:42:
942
943 (i) SEQUENCE CHARACTERISTICS:
944 (A) LENGTH: 9 amino acids
945 (B) TYPE: amino acid
946 (C) STRANDEDNESS: single
947 (D) TOPOLOGY: linear
948
949 (ii) MOLECULE TYPE: peptide
950
951
952 (ix) FEATURE:
953 (A) NAME/KEY: Binding-site
954 (B) LOCATION: 1..8
955
956
957 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:
958
959 Gly Arg Thr Thr Lys Gln Glu Pro Met
960 1 5
961

962 (2) INFORMATION FOR SEQ ID NO:43:
963
964 (i) SEQUENCE CHARACTERISTICS:
965 (A) LENGTH: 12 amino acids
966 (B) TYPE: amino acid
967 (C) STRANDEDNESS: single
968 (D) TOPOLOGY: linear
969

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:48:51

INPUT SET: S521.raw

970 (ii) MOLECULE TYPE: peptide
971
972
973 (ix) FEATURE:
974 (A) NAME/KEY: Binding-site
975 (B) LOCATION: 4..11
976
977
978 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:
979
980 Ile Ser Thr Lys Gln Ala Ala Phe Lys Ala Val Ser
981 1 5 10
982
983 (2) INFORMATION FOR SEQ ID NO:44:
984
985 (i) SEQUENCE CHARACTERISTICS:
986 (A) LENGTH: 9 amino acids
987 (B) TYPE: amino acid
988 (C) STRANDEDNESS: single
989 (D) TOPOLOGY: linear
990
991 (ii) MOLECULE TYPE: peptide
992
993
994 (ix) FEATURE:
995 (A) NAME/KEY: Binding-site
996 (B) LOCATION: 1..8
997
998 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:
999
1000 Ala Phe Lys Ala Val Ser Glu Val Cys
1001 1 5
1002
1003 (2) INFORMATION FOR SEQ ID NO:45:
1004
1005 (i) SEQUENCE CHARACTERISTICS:
1006 (A) LENGTH: 15 amino acids
1007 (B) TYPE: amino acid
1008 (C) STRANDEDNESS: single
1009 (D) TOPOLOGY: linear
1010
1011 (ii) MOLECULE TYPE: peptide
1012
1013 (ix) FEATURE:
1014 (A) NAME/KEY: Binding-site
1015 (B) LOCATION: 5..12
1016
1017
1018 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:
1019
1020 Phe Thr Phe Ile Gln Phe Lys Lys Asp Leu Lys Glu Ser Met Lys

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:48:58

INPUT SET: S521.raw

1021 1 5 10 15

1022

1023

1024 (2) INFORMATION FOR SEQ ID NO:46:

1025

1026 (i) SEQUENCE CHARACTERISTICS:

1027 (A) LENGTH: 10 amino acids

1028 (B) TYPE: amino acid

1029 (C) STRANDEDNESS: single

1030 (D) TOPOLOGY: linear

1031

1032 (ii) MOLECULE TYPE: peptide

1033

1034 (ix) FEATURE:

1035 (A) NAME/KEY: Binding-site

1036 (B) LOCATION: 2..10

1037

1038

1039 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

1040

1041 Ser Met Lys Cys Gly Met Trp Gly Arg Ala

1042 1 5 10

1043

1044

1045

1046

1047

1048 (2) INFORMATION FOR SEQ ID NO:47:

1049

1050 (i) SEQUENCE CHARACTERISTICS:

1051 (A) LENGTH: 12 amino acids

1052 (B) TYPE: amino acid

1053 (C) STRANDEDNESS: single

1054 (D) TOPOLOGY: linear

1055

1056 (ii) MOLECULE TYPE: peptide

1057

1058 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

1059

1060 Gly Met Trp Gly Arg Ala Leu Arg Lys Ala Ile Ala

1061 1 5 10

1062

1063 (2) INFORMATION FOR SEQ ID NO:48:

1064

1065 (i) SEQUENCE CHARACTERISTICS:

1066 (A) LENGTH: 23 amino acids

1067 (B) TYPE: amino acid

1068 (C) STRANDEDNESS: single

1069 (D) TOPOLOGY: linear

1070

1071 (ii) MOLECULE TYPE: peptide

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:49:05

INPUT SET: S521.raw

1072
1073
1074 (ix) FEATURE:
1075 (A) NAME/KEY: Binding-site
1076 (B) LOCATION: 9..16
1077
1078 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:
1079
1080 Ala Leu Ala Val Thr Lys Tyr Lys Gln Arg Asn Gly Trp Ser His
1081 1 5 10 15
1082
1083 Lys Asp Leu Leu Arg Leu Ser His
1084 20
1085
1086 (2) INFORMATION FOR SEQ ID NO:49:
1087
1088 (i) SEQUENCE CHARACTERISTICS:
1089 (A) LENGTH: 11 amino acids
1090 (B) TYPE: amino acid
1091 (C) STRANDEDNESS: single
1092 (D) TOPOLOGY: linear
1093
1094 (ii) MOLECULE TYPE: peptide
1095
1096
1097 (ix) FEATURE:
1098 (A) NAME/KEY: Binding-site
1099 (B) LOCATION: 3..10
1100
1101
1102 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:
1103
1104 Leu Leu Arg Leu Ser His Leu Lys Pro Ser Ser
1105 1 5 10
1106
1107 (2) INFORMATION FOR SEQ ID NO:50:
1108
1109 (i) SEQUENCE CHARACTERISTICS:
1110 (A) LENGTH: 8 amino acids
1111 (B) TYPE: amino acid
1112 (C) STRANDEDNESS: single
1113 (D) TOPOLOGY: linear
1114
1115 (ii) MOLECULE TYPE: peptide
1116
1117
1118 (ix) FEATURE:
1119 (A) NAME/KEY: Binding-site
1120 (B) LOCATION: 1..8
1121
1122

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:49:12

INPUT SET: S521.raw

1123 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:
1124
1125 His Glu Leu Tyr Lys Glu Lys Ala
1126 1 5
1127
1128 (2) INFORMATION FOR SEQ ID NO:51:
1129
1130 (i) SEQUENCE CHARACTERISTICS:
1131 (A) LENGTH: 9 amino acids
1132 (B) TYPE: amino acid
1133 (C) STRANDEDNESS: single
1134 (D) TOPOLOGY: linear
1135
1136 (ii) MOLECULE TYPE: peptide
1137
1138
1139 (ix) FEATURE:
1140 (A) NAME/KEY: Binding-site
1141 (B) LOCATION: 1..8
1142
1143
1144 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:
1145
1146 Leu Tyr Lys Glu Lys Ala Leu Ser Val
1147 1 5
1148
1149
1150
1151 (2) INFORMATION FOR SEQ ID NO:52:
1152
1153 (i) SEQUENCE CHARACTERISTICS:
1154 (A) LENGTH: 14 amino acids
1155 (B) TYPE: amino acid
1156 (C) STRANDEDNESS: single
1157 (D) TOPOLOGY: linear
1158
1159 (ii) MOLECULE TYPE: peptide
1160
1161 (ix) FEATURE:
1162 (A) NAME/KEY: Binding-site
1163 (B) LOCATION: 7..14
1164
1165
1166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:
1167
1168 Lys Ala Leu Ser Val Glu Thr Glu Lys Leu Leu Lys Tyr Leu
1169 1 5 10
1170
1171
1172 (2) INFORMATION FOR SEQ ID NO:53:
1173

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:49:19

INPUT SET: S521.raw

1174 (i) SEQUENCE CHARACTERISTICS:
1175 (A) LENGTH: 8 amino acids
1176 (B) TYPE: amino acid
1177 (C) STRANDEDNESS: single
1178 (D) TOPOLOGY: linear
1179
1180 (ii) MOLECULE TYPE: peptide
1181
1182 (ix) FEATURE:
1183 (A) NAME/KEY: Binding-site
1184 (B) LOCATION: 1..8
1185
1186 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:
1187
1188 Lys Leu Leu Lys Tyr Leu Glu Ala
1189 1 5
1190
1191 (2) INFORMATION FOR SEQ ID NO:54:
1192
1193 (i) SEQUENCE CHARACTERISTICS:
1194 (A) LENGTH: 13 amino acids
1195 (B) TYPE: amino acid
1196 (C) STRANDEDNESS: single
1197 (D) TOPOLOGY: linear
1198
1199 (ii) MOLECULE TYPE: peptide
1200
1201 (ix) FEATURE:
1202 (A) NAME/KEY: Binding-site
1203 (B) LOCATION: 6..13
1204
1205
1206 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:
1207
1208 Leu Glu Ala Val Glu Lys Val Lys Arg Thr Lys Asp Glu
1209 1 5 10
1210
1211
1212 (2) INFORMATION FOR SEQ ID NO:55:
1213
1214 (i) SEQUENCE CHARACTERISTICS:
1215 (A) LENGTH: 22 amino acids
1216 (B) TYPE: amino acid
1217 (C) STRANDEDNESS: single
1218 (D) TOPOLOGY: linear
1219
1220 (ii) MOLECULE TYPE: peptide
1221
1222
1223 (ix) FEATURE:
1224 (A) NAME/KEY: Binding-site

RAW SEQUENCE LISTING
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INPUT SET: S521.raw

1225 (B) LOCATION: 1..14
1226
1227
1228 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:
1229
1230 His Leu Leu Thr Asn His Leu Lys Ser Lys Glu Val Trp Lys Ala
1231 1 5 10 15
1232 Leu Leu Gln Glu Met Pro Leu
1233 20
1234
1235
1236 (2) INFORMATION FOR SEQ ID NO:56:
1237
1238 (i) SEQUENCE CHARACTERISTICS:
1239 (A) LENGTH: 11 amino acids
1240 (B) TYPE: amino acid
1241 (C) STRANDEDNESS: single
1242 (D) TOPOLOGY: linear
1243
1244 (ii) MOLECULE TYPE: peptide
1245
1246
1247 (ix) FEATURE:
1248 (A) NAME/KEY: Binding-site
1249 (B) LOCATION: 1..8
1250
1251
1252
1253 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:
1254
1255 Ala Leu Leu Arg Asn Leu Gly Lys Met Thr Ala
1256 1 5 10
1257
1258 (2) INFORMATION FOR SEQ ID NO:57:
1259
1260 (i) SEQUENCE CHARACTERISTICS:
1261 (A) LENGTH: 8 amino acids
1262 (B) TYPE: amino acid
1263 (C) STRANDEDNESS: single
1264 (D) TOPOLOGY: linear
1265
1266 (ii) MOLECULE TYPE: peptide
1267
1268
1269 (ix) FEATURE:
1270 (A) NAME/KEY: Binding-site
1271 (B) LOCATION: 1..8
1272
1273
1274 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:
1275

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:49:32

INPUT SET: S521.raw

1276 Leu Gly Lys Met Thr Ala Asn Ser
1277 1 51278
1279 (2) INFORMATION FOR SEQ ID NO:58:

1280

1281 (i) SEQUENCE CHARACTERISTICS:
1282 (A) LENGTH: 17 amino acids
1283 (B) TYPE: amino acid
1284 (C) STRANDEDNESS: single
1285 (D) TOPOLOGY: linear

1286

1287 (ii) MOLECULE TYPE: peptide

1288

1289

1290 (ix) FEATURE:
1291 (A) NAME/KEY: Binding-site
1292 (B) LOCATION: 6..15

1293

1294

1295 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

1296

1297 Leu Cys Asn Glu Lys Leu Leu Lys Lys Ala Arg Ile His Pro Phe
1298 1 5 10 15

1299

1300 His Ile

1301

1302

1303

1304 (2) INFORMATION FOR SEQ ID NO:59:

1305

1306 (i) SEQUENCE CHARACTERISTICS:
1307 (A) LENGTH: 18 amino acids
1308 (B) TYPE: amino acid
1309 (C) STRANDEDNESS: single
1310 (D) TOPOLOGY: linear

1311

1312 (ii) MOLECULE TYPE: peptide

1313

1314

1315 (ix) FEATURE:
1316 (A) NAME/KEY: Binding-site
1317 (B) LOCATION: 2..9

1318

1319

1320 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

1321

1322 Thr Tyr Lys Thr Gly His Gly Leu Arg Gly Lys Leu Lys Trp Arg 1
1323 Pro Asp Glu

1324

1325 (2) INFORMATION FOR SEQ ID NO:60:

1326

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
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INPUT SET: S521.raw

1327 (i) SEQUENCE CHARACTERISTICS:
1328 (A) LENGTH: 8 amino acids
1329 (B) TYPE: amino acid
1330 (C) STRANDEDNESS: single
1331 (D) TOPOLOGY: linear
1332
1333 (ii) MOLECULE TYPE: peptide
1334
1335
1336 (ix) FEATURE:
1337 (A) NAME/KEY: Binding-site
1338 (B) LOCATION: 1..8
1339
1340
1341 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:
1342
1343 Ala Leu Asp Ala Ala Phe Tyr Lys
1344 1 5
1345
1346
1347
1348 (2) INFORMATION FOR SEQ ID NO:61:
1349
1350 (i) SEQUENCE CHARACTERISTICS:
1351 (A) LENGTH: 20 amino acids
1352 (B) TYPE: amino acid
1353 (C) STRANDEDNESS: single
1354 (D) TOPOLOGY: linear
1355
1356 (ii) MOLECULE TYPE: peptide
1357
1358
1359 (ix) FEATURE:
1360 (A) NAME/KEY: Binding-site
1361 (B) LOCATION: 1..8
1362
1363
1364 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:
1365
1366 Ala Ala Phe Tyr Lys Thr Phe Lys Thr Val Glu Pro Thr Gly Lys
1367 1 5 10 15
1368 Arg Phe Leu Leu Ala
1369 20
1370
1371
1372 (2) INFORMATION FOR SEQ ID NO:62:
1373
1374 (i) SEQUENCE CHARACTERISTICS:
1375 (A) LENGTH: 10 amino acids
1376 (B) TYPE: amino acid
1377 (C) STRANDEDNESS: single

RAW SEQUENCE LISTING
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INPUT SET: S521.raw

1378 (D) TOPOLOGY: linear
1379
1380 (ii) MOLECULE TYPE: peptide
1381
1382 (ix) FEATURE:
1383 (A) NAME/KEY: Binding-site
1384 (B) LOCATION: 1..8
1385
1386 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:
1387
1388 Ala Ser Met Asn Gln Arg Val Leu Gly Ser
1389 1 5 10
1390
1391 (2) INFORMATION FOR SEQ ID NO:63:
1392
1393 (i) SEQUENCE CHARACTERISTICS:
1394 (A) LENGTH: 8 amino acids
1395 (B) TYPE: amino acid
1396 (C) STRANDEDNESS: single
1397 (D) TOPOLOGY: linear
1398
1399 (ii) MOLECULE TYPE: peptide
1400
1401
1402 (ix) FEATURE:
1403 (A) NAME/KEY: Binding-site
1404 (B) LOCATION: 1..8
1405
1406 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:
1407
1408 Ala Met Cys Met Val Val Thr Arg
1409 1 5
1410
1411 (2) INFORMATION FOR SEQ ID NO:64:
1412
1413 (i) SEQUENCE CHARACTERISTICS:
1414 (A) LENGTH: 8 amino acids
1415 (B) TYPE: amino acid
1416 (C) STRANDEDNESS: single
1417 (D) TOPOLOGY: linear
1418
1419 (ii) MOLECULE TYPE: peptide
1420
1421
1422
1423 (ix) FEATURE:
1424 (A) NAME/KEY: Binding-site
1425 (B) LOCATION: 1..8
1426
1427
1428 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
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INPUT SET: S521.raw

1429
1430 Ala Phe Ser Asp Glu Met Val Pro
1431 1 5
1432
1433 (2) INFORMATION FOR SEQ ID NO:65:
1434
1435 (i) SEQUENCE CHARACTERISTICS:
1436 (A) LENGTH: 8 amino acids
1437 (B) TYPE: amino acid
1438 (C) STRANDEDNESS: single
1439 (D) TOPOLOGY: linear
1440
1441 (ii) MOLECULE TYPE: peptide
1442
1443
1444 (ix) FEATURE:
1445 (A) NAME/KEY: Binding-site
1446 (B) LOCATION: 1..8
1447
1448 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:
1449
1450 Val Pro Cys Pro Val Thr Thr Asp
1451 1 5
1452
1453 (2) INFORMATION FOR SEQ ID NO:66:
1454
1455 (i) SEQUENCE CHARACTERISTICS:
1456 (A) LENGTH: 8 amino acids
1457 (B) TYPE: amino acid
1458 (C) STRANDEDNESS: single
1459 (D) TOPOLOGY: linear
1460
1461 (ii) MOLECULE TYPE: peptide
1462
1463
1464 (ix) FEATURE:
1465 (A) NAME/KEY: Binding-site
1466 (B) LOCATION: 1..8
1467
1468
1469 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
1470
1471 Val Leu Met Ala Met Ser Gln Ile
1472 1 5
1473
1474
1475 (2) INFORMATION FOR SEQ ID NO:67:
1476
1477 (i) SEQUENCE CHARACTERISTICS:
1478 (A) LENGTH: 8 amino acids
1479 (B) TYPE: amino acid

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:49:59

INPUT SET: S521.raw

1480 (C) STRANDEDNESS: single
1481 (D) TOPOLOGY: linear
1482
1483 (ii) MOLECULE TYPE: peptide
1484
1485
1486 (ix) FEATURE:
1487 (A) NAME/KEY: Binding-site
1488 (B) LOCATION: 1..8
1489
1490
1491 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:
1492
1493 Thr Asp Cys Ser Leu Pro Met Ile
1494 1 5
1495
1496
1497
1498 (2) INFORMATION FOR SEQ ID NO:68:
1499
1500 (i) SEQUENCE CHARACTERISTICS:
1501 (A) LENGTH: 15 amino acids
1502 (B) TYPE: amino acid
1503 (C) STRANDEDNESS: single
1504 (D) TOPOLOGY: linear
1505
1506 (ii) MOLECULE TYPE: peptide
1507
1508 (ix) FEATURE:
1509 (A) NAME/KEY: Binding-site
1510 (B) LOCATION: 3..10
1511
1512 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:
1513
1514 Cys Ser Leu Pro Met Ile Trp Ala Gln Lys Thr Asn Thr Pro Ala
1515 1 5 10 15
1516
1517 (2) INFORMATION FOR SEQ ID NO:69:
1518
1519 (i) SEQUENCE CHARACTERISTICS:
1520 (A) LENGTH: 10 amino acids
1521 (B) TYPE: amino acid
1522 (C) STRANDEDNESS: single
1523 (D) TOPOLOGY: linear
1524
1525 (ii) MOLECULE TYPE: peptide
1526
1527 (ix) FEATURE:
1528 (A) NAME/KEY: Binding-site
1529 (B) LOCATION: 1..8
1530

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
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INPUT SET: S521.raw

1531 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:
1532
1533 Thr Phe Ala Gly Gly Val His Pro Ala Ile
1534 1 5 10
1535
1536 (2) INFORMATION FOR SEQ ID NO:70:
1537
1538 (i) SEQUENCE CHARACTERISTICS:
1539 (A) LENGTH: 16 amino acids
1540 (B) TYPE: amino acid
1541 (C) STRANDEDNESS: single
1542 (D) TOPOLOGY: linear
1543
1544 (ii) MOLECULE TYPE: peptide
1545
1546
1547 (ix) FEATURE:
1548 (A) NAME/KEY: Binding-site
1549 (B) LOCATION: 4..11
1550
1551
1552 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:
1553
1554 Ile Ala Leu Arg Glu Tyr Arg Lys Lys Met Asp Ile Pro Ala Lys
1555 1 5 10 15
1556 Leu
1557
1558 (2) INFORMATION FOR SEQ ID NO:71:
1559
1560 (i) SEQUENCE CHARACTERISTICS:
1561 (A) LENGTH: 16 amino acids
1562 (B) TYPE: amino acid
1563 (C) STRANDEDNESS: single
1564 (D) TOPOLOGY: linear
1565
1566 (ii) MOLECULE TYPE: peptide
1567
1568
1569 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:
1570
1571 Ile Val Thr Lys Tyr Ile Thr Lys Gly Trp Lys Glu Val His Glu Leu
1572 1 5 10 15
1573
1574
1575 (2) INFORMATION FOR SEQ ID NO:72:
1576
1577 (i) SEQUENCE CHARACTERISTICS:
1578 (A) LENGTH: 8 amino acids
1579 (B) TYPE: amino acid
1580 (C) STRANDEDNESS: single
1581 (D) TOPOLOGY: linear

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1582
1583 (ii) MOLECULE TYPE: peptide
1584
1585
1586 (ix) FEATURE:
1587 (A) NAME/KEY: Binding-site
1588 (B) LOCATION: 1..8
1589
1590
1591 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:
1592
1593 Ala Leu Phe Ala Pro Arg Asp Pro
1594 1 5
1595
1596 (2) INFORMATION FOR SEQ ID NO:73:
1597
1598 (i) SEQUENCE CHARACTERISTICS:
1599 (A) LENGTH: 10 amino acids
1600 (B) TYPE: amino acid
1601 (C) STRANDEDNESS: single
1602 (D) TOPOLOGY: linear
1603
1604 (ii) MOLECULE TYPE: peptide
1605
1606
1607 (ix) FEATURE:
1608 (A) NAME/KEY: Binding-site
1609 (B) LOCATION: 1..8
1610
1611 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:
1612
1613 Glu Arg Met Glu Arg Lys Arg Arg Glu Lys
1614 1 5 10
1615
1616 (2) INFORMATION FOR SEQ ID NO:74:
1617
1618 (i) SEQUENCE CHARACTERISTICS:
1619 (A) LENGTH: 14 amino acids
1620 (B) TYPE: amino acid
1621 (C) STRANDEDNESS: single
1622 (D) TOPOLOGY: linear
1623
1624 (ii) MOLECULE TYPE: peptide
1625
1626
1627 (ix) FEATURE:
1628 (A) NAME/KEY: Binding-site
1629 (B) LOCATION: 2..9
1630
1631
1632 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

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1633
1634 His Met Val Tyr Ser Lys Arg Ser Gly Lys Pro Arg Gly Tyr
1635 1 5 10
1636
1637 (2) INFORMATION FOR SEQ ID NO:75:
1638
1639 (i) SEQUENCE CHARACTERISTICS:
1640 (A) LENGTH: 15 amino acids
1641 (B) TYPE: amino acid
1642 (C) STRANDEDNESS: single
1643 (D) TOPOLOGY: linear
1644
1645 (ii) MOLECULE TYPE: peptide
1646
1647
1648 (ix) FEATURE:
1649 (A) NAME/KEY: Binding-site
1650 (B) LOCATION: 6..13
1651
1652
1653 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:
1654
1655 Tyr Lys His Ala Asp Gly Lys Lys Ile Asp Gly Arg Arg Val Leu
1656 1 5 10 15
1657
1658
1659 (2) INFORMATION FOR SEQ ID NO:76:
1660
1661 (i) SEQUENCE CHARACTERISTICS:
1662 (A) LENGTH: 8 amino acids
1663 (B) TYPE: amino acid
1664 (C) STRANDEDNESS: single
1665 (D) TOPOLOGY: linear
1666
1667 (ii) MOLECULE TYPE: peptide
1668
1669
1670 (ix) FEATURE:
1671 (A) NAME/KEY: Binding-site
1672 (B) LOCATION: 1..8
1673
1674
1675 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:
1676
1677 Val Glu Arg Gly Arg Thr Val Lys
1678 1 5
1679
1680
1681
1682
1683

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1684
1685 (2) INFORMATION FOR SEQ ID NO:77:
1686
1687 (i) SEQUENCE CHARACTERISTICS:
1688 (A) LENGTH: 8 amino acids
1689 (B) TYPE: amino acid
1690 (C) STRANDEDNESS: single
1691 (D) TOPOLOGY: linear
1692
1693 (ii) MOLECULE TYPE: peptide
1694
1695
1696 (ix) FEATURE:
1697 (A) NAME/KEY: Binding-site
1698 (B) LOCATION: 1..8
1699
1700
1701 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:
1702
1703 Val Lys Gly Trp Arg Pro Arg Arg
1704 1 5
1705
1706 (2) INFORMATION FOR SEQ ID NO:78:
1707
1708 (i) SEQUENCE CHARACTERISTICS:
1709 (A) LENGTH: 8 amino acids
1710 (B) TYPE: amino acid
1711 (C) STRANDEDNESS: single
1712 (D) TOPOLOGY: linear
1713
1714 (ii) MOLECULE TYPE: peptide
1715
1716 (ix) FEATURE:
1717 (A) NAME/KEY: Binding-site
1718 (B) LOCATION: 1..8
1719
1720
1721
1722 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:
1723
1724 Arg Arg Ser Arg Ser Arg Asp Lys
1725 1 5
1726
1727
1728 (2) INFORMATION FOR SEQ ID NO:79:
1729
1730 (i) SEQUENCE CHARACTERISTICS:
1731 (A) LENGTH: 8 amino acids
1732 (B) TYPE: amino acid
1733 (C) STRANDEDNESS: single
1734 (D) TOPOLOGY: linear

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1735
1736 (ii) MOLECULE TYPE: peptide
1737
1738
1739 (ix) FEATURE:
1740 (A) NAME/KEY: Binding-site
1741 (B) LOCATION: 1..8
1742
1743
1744 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:
1745
1746 Arg Arg Arg Ser Arg Glu Arg Ser
1747 1 5
1748
1749 (2) INFORMATION FOR SEQ ID NO:80:
1750
1751 (i) SEQUENCE CHARACTERISTICS:
1752 (A) LENGTH: 8 amino acids
1753 (B) TYPE: amino acid
1754 (C) STRANDEDNESS: single
1755 (D) TOPOLOGY: linear
1756
1757 (ii) MOLECULE TYPE: peptide
1758
1759
1760 (ix) FEATURE:
1761 (A) NAME/KEY: Binding-site
1762 (B) LOCATION: 1..8
1763
1764
1765 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:
1766
1767 Ser Arg Glu Arg Ser Lys Asp Lys
1768 1 5
1769
1770 (2) INFORMATION FOR SEQ ID NO:81:
1771
1772 (i) SEQUENCE CHARACTERISTICS:
1773 (A) LENGTH: 15 amino acids
1774 (B) TYPE: amino acid
1775 (C) STRANDEDNESS: single
1776 (D) TOPOLOGY: linear
1777
1778 (ii) MOLECULE TYPE: peptide
1779
1780
1781 (ix) FEATURE:
1782 (A) NAME/KEY: Binding-site
1783 (B) LOCATION: 8..15
1784
1785

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INPUT SET: S521.raw

1786 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:
1787
1788 Lys Asp Lys Asp Arg Asp Arg Lys Arg Arg Ser Ser Arg Ser Arg
1789 1 5 10 15
1790
1791
1792
1793
1794
1795
1796
1797 (2) INFORMATION FOR SEQ ID NO:82:
1798
1799 (i) SEQUENCE CHARACTERISTICS:
1800 (A) LENGTH: 8 amino acids
1801 (B) TYPE: amino acid
1802 (C) STRANDEDNESS: single
1803 (D) TOPOLOGY: linear
1804
1805 (ii) MOLECULE TYPE: peptide
1806
1807 (ix) FEATURE:
1808 (A) NAME/KEY: Binding-site
1809 (B) LOCATION: 1..8
1810
1811 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:
1812
1813 Arg Arg Ser His Arg Ser Glu Arg
1814 1 5
1815
1816 (2) INFORMATION FOR SEQ ID NO:83:
1817
1818 (i) SEQUENCE CHARACTERISTICS:
1819 (A) LENGTH: 9 amino acids
1820 (B) TYPE: amino acid
1821 (C) STRANDEDNESS: single
1822 (D) TOPOLOGY: linear
1823
1824 (ii) MOLECULE TYPE: peptide
1825
1826 (ix) FEATURE:
1827 (A) NAME/KEY: Binding-site
1828 (B) LOCATION: 2..9
1829
1830 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:
1831
1832 Asn Leu Asn Glu Lys Ile Lys Lys Asp
1833 1 5
1834
1835 (2) INFORMATION FOR SEQ ID NO:84:
1836

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INPUT SET: S521.raw

1837 (i) SEQUENCE CHARACTERISTICS:
1838 (A) LENGTH: 10 amino acids
1839 (B) TYPE: amino acid
1840 (C) STRANDEDNESS: single
1841 (D) TOPOLOGY: linear
1842
1843 (ii) MOLECULE TYPE: peptide
1844
1845
1846 (ix) FEATURE:
1847 (A) NAME/KEY: Binding-site
1848 (B) LOCATION: 2..9
1849
1850
1851 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:
1852
1853 Ile Lys Lys Asp Glu Leu Lys Lys Ser Leu
1854 1 5 10
1855
1856 (2) INFORMATION FOR SEQ ID NO:85:
1857
1858 (i) SEQUENCE CHARACTERISTICS:
1859 (A) LENGTH: 13 amino acids
1860 (B) TYPE: amino acid
1861 (C) STRANDEDNESS: single
1862 (D) TOPOLOGY: linear
1863
1864 (ii) MOLECULE TYPE: peptide
1865
1866
1867 (ix) FEATURE:
1868 (A) NAME/KEY: Binding-site
1869 (B) LOCATION: 3..10
1870
1871
1872 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:
1873
1874 Leu Val Ser Arg Ser Leu Lys Met Arg Gly Gln Ala Phe
1875 1 5 10
1876
1877
1878 (2) INFORMATION FOR SEQ ID NO:86:
1879
1880 (i) SEQUENCE CHARACTERISTICS:
1881 (A) LENGTH: 12 amino acids
1882 (B) TYPE: amino acid
1883 (C) STRANDEDNESS: single
1884 (D) TOPOLOGY: linear
1885
1886 (ii) MOLECULE TYPE: peptide
1887

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1888
1889 (ix) FEATURE:
1890 (A) NAME/KEY: Binding-site
1891 (B) LOCATION: 4..11
1892
1893
1894 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:
1895
1896 Gln Gly Phe Pro Phe Tyr Asp Lys Pro Met Arg Ile
1897 1 5 10
1898
1899
1900 (2) INFORMATION FOR SEQ ID NO:87:
1901
1902 (i) SEQUENCE CHARACTERISTICS:
1903 (A) LENGTH: 9 amino acids
1904 (B) TYPE: amino acid
1905 (C) STRANDEDNESS: single
1906 (D) TOPOLOGY: linear
1907
1908 (ii) MOLECULE TYPE: peptide
1909
1910
1911 (ix) FEATURE:
1912 (A) NAME/KEY: Binding-site
1913 (B) LOCATION: 1..8
1914
1915
1916 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:
1917
1918 Ile Ile Ala Lys Met Lys Gly Thr Phe
1919 1 5
1920
1921 (2) INFORMATION FOR SEQ ID NO:88:
1922
1923 (i) SEQUENCE CHARACTERISTICS:
1924 (A) LENGTH: 13 amino acids
1925 (B) TYPE: amino acid
1926 (C) STRANDEDNESS: single
1927 (D) TOPOLOGY: linear
1928
1929 (ii) MOLECULE TYPE: peptide
1930
1931 (ix) FEATURE:
1932 (A) NAME/KEY: Binding-site
1933 (B) LOCATION: 3..10
1934
1935 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:
1936
1937 Glu Arg Asp Arg Lys Arg Glu Lys Arg Lys Pro Lys Ser
1938 1 5 10

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1939
1940 (2) INFORMATION FOR SEQ ID NO:89:
1941
1942 (i) SEQUENCE CHARACTERISTICS:
1943 (A) LENGTH: 9 amino acids
1944 (B) TYPE: amino acid
1945 (C) STRANDEDNESS: single
1946 (D) TOPOLOGY: linear
1947
1948 (ii) MOLECULE TYPE: peptide
1949
1950
1951 (ix) FEATURE:
1952 (A) NAME/KEY: Binding-site
1953 (B) LOCATION: 1..8
1954
1955
1956 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:
1957
1958 Gln Glu Thr Pro Ala Thr Lys Lys Ala
1959 1 5
1960
1961 (2) INFORMATION FOR SEQ ID NO:90:
1962
1963 (i) SEQUENCE CHARACTERISTICS:
1964 (A) LENGTH: 8 amino acids
1965 (B) TYPE: amino acid
1966 (C) STRANDEDNESS: single
1967 (D) TOPOLOGY: linear
1968
1969 (ii) MOLECULE TYPE: peptide
1970
1971
1972 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:
1973
1974 Ala Leu Gln Gly Phe Lys Ile Thr
1975 1 5
1976
1977
1978 (2) INFORMATION FOR SEQ ID NO:91:
1979
1980 (i) SEQUENCE CHARACTERISTICS:
1981 (A) LENGTH: 9 amino acids
1982 (B) TYPE: amino acid
1983 (C) STRANDEDNESS: single
1984 (D) TOPOLOGY: linear
1985
1986 (ii) MOLECULE TYPE: peptide
1987
1988 (ix) FEATURE:
1989 (A) NAME/KEY: Binding-site

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1990 (B) LOCATION: 2..9
1991
1992
1993 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:
1994
1995 Ala Met Lys Ile Ser Phe Ala Lys Lys
1996 1 5
1997
1998
1999 (2) INFORMATION FOR SEQ ID NO:92:
2000
2001 (i) SEQUENCE CHARACTERISTICS:
2002 (A) LENGTH: 18 amino acids
2003 (B) TYPE: amino acid
2004 (C) STRANDEDNESS: single
2005 (D) TOPOLOGY: linear
2006
2007 (ii) MOLECULE TYPE: peptide
2008
2009
2010 (ix) FEATURE:
2011 (A) NAME/KEY: Binding-site
2012 (B) LOCATION: 10..17
2013
2014
2015 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:
2016
2017 Ser Val Arg Lys Thr His Cys Ser Gly Arg Lys His Lys Glu Asn
2018 1 5 10 15
2019 Val Lys Asp
2020
2021
2022
2023 (2) INFORMATION FOR SEQ ID NO:93:
2024
2025 (i) SEQUENCE CHARACTERISTICS:
2026 (A) LENGTH: 8 amino acids
2027 (B) TYPE: amino acid
2028 (C) STRANDEDNESS: single
2029 (D) TOPOLOGY: linear
2030
2031 (ii) MOLECULE TYPE: peptide
2032
2033
2034 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:
2035
2036 Lys Asp Tyr Tyr Gln Lys Trp Met
2037 1 5
2038
2039 (2) INFORMATION FOR SEQ ID NO:94:
2040

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2041 (i) SEQUENCE CHARACTERISTICS:
2042 (A) LENGTH: 9 amino acids
2043 (B) TYPE: amino acid
2044 (C) STRANDEDNESS: single
2045 (D) TOPOLOGY: linear
2046
2047 (ii) MOLECULE TYPE: peptide
2048
2049
2050 (ix) FEATURE:
2051 (A) NAME/KEY: Binding-site
2052 (B) LOCATION: 1..8
2053
2054
2055 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:
2056
2057 Ala Phe Gln Gln Gly Lys Ile Pro Pro
2058 1 5
2059
2060 (2) INFORMATION FOR SEQ ID NO:95:
2061
2062 (i) SEQUENCE CHARACTERISTICS:
2063 (A) LENGTH: 8 amino acids
2064 (B) TYPE: amino acid
2065 (C) STRANDEDNESS: single
2066 (D) TOPOLOGY: linear
2067
2068 (ii) MOLECULE TYPE: peptide
2069
2070
2071 (ix) FEATURE:
2072 (A) NAME/KEY: Binding-site
2073 (B) LOCATION: 1..8
2074
2075
2076 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:
2077
2078 Lys Ile Pro Pro Thr Pro Phe Ser
2079 1 5
2080
2081
2082
2083 (2) INFORMATION FOR SEQ ID NO:96:
2084
2085 (i) SEQUENCE CHARACTERISTICS:
2086 (A) LENGTH: 8 amino acids
2087 (B) TYPE: amino acid
2088 (C) STRANDEDNESS: single
2089 (D) TOPOLOGY: linear
2090
2091 (ii) MOLECULE TYPE: peptide

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2092
2093
2094 (ix) FEATURE:
2095 (A) NAME/KEY: Binding-site
2096 (B) LOCATION: 1..8
2097
2098
2099 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:
2100
2101 Pro Pro Pro Pro Ser Leu Pro Gly
2102 1 5
2103
2104
2105 (2) INFORMATION FOR SEQ ID NO:97:
2106
2107 (i) SEQUENCE CHARACTERISTICS:
2108 (A) LENGTH: 8 amino acids
2109 (B) TYPE: amino acid
2110 (C) STRANDEDNESS: single
2111 (D) TOPOLOGY: linear
2112
2113 (ii) MOLECULE TYPE: peptide
2114
2115
2116 (ix) FEATURE:
2117 (A) NAME/KEY: Binding-site
2118 (B) LOCATION: 1..8
2119
2120
2121 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:
2122
2123 Ser Leu Pro Gly Pro Pro Arg Pro
2124 1 5
2125
2126
2127 (2) INFORMATION FOR SEQ ID NO:98:
2128
2129 (i) SEQUENCE CHARACTERISTICS:
2130 (A) LENGTH: 10 amino acids
2131 (B) TYPE: amino acid
2132 (C) STRANDEDNESS: single
2133 (D) TOPOLOGY: linear
2134
2135 (ii) MOLECULE TYPE: peptide
2136
2137
2138 (ix) FEATURE:
2139 (A) NAME/KEY: Binding-site
2140 (B) LOCATION: 2..9
2141
2142

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2143 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

2144

2145 Gly Pro Pro Arg Pro Gly Met Met Pro Ala

2146 1 5 10

2147

2148 (2) INFORMATION FOR SEQ ID NO:99:

2149

2150 (i) SEQUENCE CHARACTERISTICS:

2151 (A) LENGTH: 8 amino acids

2152 (B) TYPE: amino acid

2153 (C) STRANDEDNESS: single

2154 (D) TOPOLOGY: linear

2155

2156 (ii) MOLECULE TYPE: peptide

2157

2158

2159 (ix) FEATURE:

2160 (A) NAME/KEY: Binding-site

2161 (B) LOCATION: 1..8

2162

2163

2164 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

2165

2166 Pro Pro Pro Pro Gly Met Met Pro

2167 1 5

2168

2169

2170

2171

2172 (2) INFORMATION FOR SEQ ID NO:100:

2173

2174 (i) SEQUENCE CHARACTERISTICS:

2175 (A) LENGTH: 9 amino acids

2176 (B) TYPE: amino acid

2177 (C) STRANDEDNESS: single

2178 (D) TOPOLOGY: linear

2179

2180 (ii) MOLECULE TYPE: peptide

2181

2182

2183 (ix) FEATURE:

2184 (A) NAME/KEY: Binding-site

2185 (B) LOCATION: 1..8

2186

2187

2188

2189

2190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

2191

2192 Gly Pro Ala Pro Gly Met Arg Pro Pro

2193 1 5

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2194
2195 (2) INFORMATION FOR SEQ ID NO:101:
2196
2197 (i) SEQUENCE CHARACTERISTICS:
2198 (A) LENGTH: 8 amino acids
2199 (B) TYPE: amino acid
2200 (C) STRANDEDNESS: single
2201 (D) TOPOLOGY: linear
2202
2203 (ii) MOLECULE TYPE: peptide
2204
2205
2206 (ix) FEATURE:
2207 (A) NAME/KEY: Binding-site
2208 (B) LOCATION: 1..8
2209
2210
2211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:
2212
2213 Pro Pro Met Met Arg Pro Pro Ala
2214 1 5
2215
2216
2217 (2) INFORMATION FOR SEQ ID NO:102:
2218
2219 (i) SEQUENCE CHARACTERISTICS:
2220 (A) LENGTH: 8 amino acids
2221 (B) TYPE: amino acid
2222 (C) STRANDEDNESS: single
2223 (D) TOPOLOGY: linear
2224
2225 (ii) MOLECULE TYPE: peptide
2226
2227
2228 (ix) FEATURE:
2229 (A) NAME/KEY: Binding-site
2230 (B) LOCATION: 1..8
2231
2232
2233 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:
2234
2235 Pro Gly Met Thr Arg Pro Asp Arg
2236 1 5
2237
2238
2239
2240 (2) INFORMATION FOR SEQ ID NO:103:
2241
2242 (i) SEQUENCE CHARACTERISTICS:
2243 (A) LENGTH: 8 amino acids
2244 (B) TYPE: amino acid

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2245 (C) STRANDEDNESS: single
2246 (D) TOPOLOGY: linear
2247
2248 (ii) MOLECULE TYPE: peptide
2249
2250 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:
2251
2252 Ile Gly Thr Phe Lys Ala Phe Asp
2253 1 5
2254

(2) INFORMATION FOR SEQ ID NO:104:

2256
2257 (i) SEQUENCE CHARACTERISTICS:
2258 (A) LENGTH: 8 amino acids
2259 (B) TYPE: amino acid
2260 (C) STRANDEDNESS: single
2261 (D) TOPOLOGY: linear
2262
2263 (ii) MOLECULE TYPE: peptide
2264
2265 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:
2266
2267 Asp Cys Asp Glu Phe Arg Lys Ile
2268 1 5
2269

(2) INFORMATION FOR SEQ ID NO:105:

2271
2272 (i) SEQUENCE CHARACTERISTICS:
2273 (A) LENGTH: 8 amino acids
2274 (B) TYPE: amino acid
2275 (C) STRANDEDNESS: single
2276 (D) TOPOLOGY: linear
2277
2278 (ii) MOLECULE TYPE: peptide
2279
2280 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:
2281
2282 Pro Lys Asn Ala Lys Gln Pro Glu
2283 1 5
2284

(2) INFORMATION FOR SEQ ID NO:106:

2287
2288 (i) SEQUENCE CHARACTERISTICS:
2289 (A) LENGTH: 8 amino acids
2290 (B) TYPE: amino acid
2291 (C) STRANDEDNESS: single
2292 (D) TOPOLOGY: linear
2293
2294 (ii) MOLECULE TYPE: peptide
2295

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2296
2297 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:
2298

2299 Met Pro Pro Pro Gly Met Arg Pro
2300 1 5
2301

2302 (2) INFORMATION FOR SEQ ID NO:107:
2303

2304 (i) SEQUENCE CHARACTERISTICS:
2305 (A) LENGTH: 8 amino acids
2306 (B) TYPE: amino acid
2307 (C) STRANDEDNESS: single
2308 (D) TOPOLOGY: linear
2309

2310 (ii) MOLECULE TYPE: peptide
2311

2312
2313 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:
2314

2315 Gln Gln Val Met Thr Pro Gln Gly
2316 1 5
2317

2318
2319
2320
2321
2322

2323 (2) INFORMATION FOR SEQ ID NO:108:
2324

2325 (i) SEQUENCE CHARACTERISTICS:
2326 (A) LENGTH: 8 amino acids
2327 (B) TYPE: amino acid
2328 (C) STRANDEDNESS: single
2329 (D) TOPOLOGY: linear
2330

2331 (ii) MOLECULE TYPE: peptide
2332

2333 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:
2334

2335 Gln Gly Arg Gly Thr Val Ala Ala
2336 1 5
2337

2338 (2) INFORMATION FOR SEQ ID NO:109:
2339

2340 (i) SEQUENCE CHARACTERISTICS:
2341 (A) LENGTH: 8 amino acids
2342 (B) TYPE: amino acid
2343 (C) STRANDEDNESS: single
2344 (D) TOPOLOGY: linear
2345

2346 (ii) MOLECULE TYPE: peptide

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
TIME: 12:51:55

INPUT SET: S521.raw

2347
2348 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:
2349

2350 Ala Pro Thr Gln Tyr Pro Pro Gly
2351 1 5
2352

2353 (2) INFORMATION FOR SEQ ID NO:110:
2354

2355 (i) SEQUENCE CHARACTERISTICS:
2356 (A) LENGTH: 8 amino acids
2357 (B) TYPE: amino acid
2358 (C) STRANDEDNESS: single
2359 (D) TOPOLOGY: linear
2360

2361 (ii) MOLECULE TYPE: peptide
2362
2363

2364 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:
2365

2366 Gly Thr Pro Pro Pro Pro Val Gly
2367 1 5
2368

2369 (2) INFORMATION FOR SEQ ID NO:111:
2370

2371 (i) SEQUENCE CHARACTERISTICS:
2372 (A) LENGTH: 8 amino acids
2373 (B) TYPE: amino acid
2374 (C) STRANDEDNESS: single
2375 (D) TOPOLOGY: linear
2376

2377 (ii) MOLECULE TYPE: peptide
2378
2379

2380 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:
2381

2382 Ile Met Ala Pro Pro Pro Gly Met
2383 1 5
2384
2385
2386
2387
2388

2389 (2) INFORMATION FOR SEQ ID NO:112:
2390

2391 (i) SEQUENCE CHARACTERISTICS:
2392 (A) LENGTH: 8 amino acids
2393 (B) TYPE: amino acid
2394 (C) STRANDEDNESS: single
2395 (D) TOPOLOGY: linear
2396

2397 (ii) MOLECULE TYPE: peptide

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
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INPUT SET: S521.raw

2398
2399
2400 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

2401
2402 Ile Gly Met Pro Pro Pro Gly Met
2403 1 5
2404

2405 (2) INFORMATION FOR SEQ ID NO:113:

2406
2407 (i) SEQUENCE CHARACTERISTICS:
2408 (A) LENGTH: 8 amino acids
2409 (B) TYPE: amino acid
2410 (C) STRANDEDNESS: single
2411 (D) TOPOLOGY: linear
2412

2413 (ii) MOLECULE TYPE: peptide
2414
2415

2416 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

2417
2418 Gly Met Pro Pro Pro Gly Met Arg
2419 1 5
2420

2421
2422 (2) INFORMATION FOR SEQ ID NO:114:

2423
2424 (i) SEQUENCE CHARACTERISTICS:
2425 (A) LENGTH: 8 amino acids
2426 (B) TYPE: amino acid
2427 (C) STRANDEDNESS: single
2428 (D) TOPOLOGY: linear
2429

2430 (ii) MOLECULE TYPE: peptide
2431

2432 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

2433
2434 Pro Pro Gly Met Arg Pro Pro Pro
2435 1 5
2436

2437 (2) INFORMATION FOR SEQ ID NO:115:

2438
2439 (i) SEQUENCE CHARACTERISTICS:
2440 (A) LENGTH: 8 amino acids
2441 (B) TYPE: amino acid
2442 (C) STRANDEDNESS: single
2443 (D) TOPOLOGY: linear
2444

2445 (ii) MOLECULE TYPE: peptide
2446

2447 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

2448

RAW SEQUENCE LISTING
PATENT APPLICATION US/07/867,819DATE: 09/23/93
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INPUT SET: S521.raw

2449 Met Arg Pro Pro Pro Pro Gly Ile
2450 1 5

2451
2452 (2) INFORMATION FOR SEQ ID NO:116:

2453
2454 (i) SEQUENCE CHARACTERISTICS:
2455 (A) LENGTH: 8 amino acids
2456 (B) TYPE: amino acid
2457 (C) STRANDEDNESS: single
2458 (D) TOPOLOGY: linear

2459
2460 (ii) MOLECULE TYPE: peptide

2461
2462
2463 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

2464
2465 Pro Ala Pro Gly Met Arg Pro Pro
2466 1 5

2467
2468
2469
2470
2471
2472
2473

2474 (2) INFORMATION FOR SEQ ID NO:117:

2475
2476 (i) SEQUENCE CHARACTERISTICS:
2477 (A) LENGTH: 8 amino acids
2478 (B) TYPE: amino acid
2479 (C) STRANDEDNESS: single
2480 (D) TOPOLOGY: linear

2481
2482 (ii) MOLECULE TYPE: peptide

2483
2484
2485 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

2486
2487 Pro Pro Pro Gly Met Ile Pro Pro
2488 1 5

2489

2490 (2) INFORMATION FOR SEQ ID NO:118:

2491
2492 (i) SEQUENCE CHARACTERISTICS:
2493 (A) LENGTH: 8 amino acids
2494 (B) TYPE: amino acid
2495 (C) STRANDEDNESS: single
2496 (D) TOPOLOGY: linear

2497
2498 (ii) MOLECULE TYPE: peptide

2499

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RAW SEQUENCE LISTING
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2501

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

2502

2503

Met Pro Pro Pro Gly Met Arg Pro

2504

1

5

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/07/867,819*

DATE: 09/23/93
TIME: 12:52:16

INPUT SET: S521.raw

Line	Error	Original Text
26	Wrong application Serial Number	(A) APPLICATION NUMBER: US 07/867,819

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/07/867,819

DATE: 09/23/93
TIME: 12:52:16

INPUT SET: S521.raw

< < THERE ARE NO ITEMS MISSING > >

PAGE: 1

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/07/867,819

DATE: 09/23/93
TIME: 12:52:16

INPUT SET: S521.raw

Line	Original Text	Corrected Text
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